

CLASSIFICATION:		UNCLASSIFIED																																																																																																																					
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION								DATE May 2009																																																																																																															
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7				R-1 ITEM NOMENCLATURE 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT																																																																																																																			
COST (In Millions)				FY 2008	FY 2009	FY 2010																																																																																																																	
Total PE Cost				3.923	7.358	7.211																																																																																																																	
1265 / Sub Defense Warfare				3.923	7.358	7.211																																																																																																																	
<p>A. MISSION DESCRIPTION: This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US Submarines. Next Generation Countermeasure (NGCM) efforts entail simulating and determining the effectiveness of new technologies and capabilities developed under the Future Naval Capabilities (FNC), Small Business and Innovative Research (SBIR), and other RDT&E initiatives. New and emerging hardware and software are rigorously evaluated in a representative acoustic environment through both digital and hardware-in-the-loop simulations, to determine their readiness for inserting this technology into the NGCM.</p>																																																																																																																							
<p>B. PROGRAM CHANGE SUMMARY:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Funding:</td> <td style="width: 10%;">FY 2008</td> <td style="width: 10%;">FY 2009</td> <td style="width: 10%;">FY 2010</td> <td colspan="6"></td> </tr> <tr> <td>FY09 President's Budget</td> <td style="text-align: center;">4.062</td> <td style="text-align: center;">7.384</td> <td style="text-align: center;">7.628</td> <td colspan="6"></td> </tr> <tr> <td>FY10 President's Budget</td> <td style="text-align: center;">3.923</td> <td style="text-align: center;">7.358</td> <td style="text-align: center;">7.211</td> <td colspan="6"></td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: center;">-0.139</td> <td style="text-align: center;">-0.026</td> <td style="text-align: center;">-0.417</td> <td colspan="6"></td> </tr> <tr> <td>(U) Summary of Adjustments</td> <td></td> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td>Congressional Rescissions</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td colspan="6"></td> </tr> <tr> <td>Congressional Adjustments</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">-0.020</td> <td style="text-align: center;">0.000</td> <td colspan="6"></td> </tr> <tr> <td>SBIR/STTR/FTT Assessment</td> <td style="text-align: center;">-0.034</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td colspan="6"></td> </tr> <tr> <td>Program Adjustments</td> <td style="text-align: center;">-0.105</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">-0.297</td> <td colspan="6"></td> </tr> <tr> <td>Rate/Misc Adjustments</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">-0.006</td> <td style="text-align: center;">-0.120</td> <td colspan="6"></td> </tr> <tr> <td>Total</td> <td style="text-align: center;">-0.139</td> <td style="text-align: center;">-0.026</td> <td style="text-align: center;">-0.417</td> <td colspan="6"></td> </tr> </table>										Funding:	FY 2008	FY 2009	FY 2010							FY09 President's Budget	4.062	7.384	7.628							FY10 President's Budget	3.923	7.358	7.211							Total Adjustments	-0.139	-0.026	-0.417							(U) Summary of Adjustments										Congressional Rescissions	0.000	0.000	0.000							Congressional Adjustments	0.000	-0.020	0.000							SBIR/STTR/FTT Assessment	-0.034	0.000	0.000							Program Adjustments	-0.105	0.000	-0.297							Rate/Misc Adjustments	0.000	-0.006	-0.120							Total	-0.139	-0.026	-0.417						
Funding:	FY 2008	FY 2009	FY 2010																																																																																																																				
FY09 President's Budget	4.062	7.384	7.628																																																																																																																				
FY10 President's Budget	3.923	7.358	7.211																																																																																																																				
Total Adjustments	-0.139	-0.026	-0.417																																																																																																																				
(U) Summary of Adjustments																																																																																																																							
Congressional Rescissions	0.000	0.000	0.000																																																																																																																				
Congressional Adjustments	0.000	-0.020	0.000																																																																																																																				
SBIR/STTR/FTT Assessment	-0.034	0.000	0.000																																																																																																																				
Program Adjustments	-0.105	0.000	-0.297																																																																																																																				
Rate/Misc Adjustments	0.000	-0.006	-0.120																																																																																																																				
Total	-0.139	-0.026	-0.417																																																																																																																				
<p>C. OTHER PROGRAM FUNDING SUMMARY:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Line Item No. and Name</td> <td style="width: 10%;">FY 2008</td> <td style="width: 10%;">FY 2009</td> <td style="width: 10%;">FY 2010</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>OPN - 221000/221005 Submarine Acoustic Warfare Systems</td> <td style="text-align: center;">16.815</td> <td style="text-align: center;">20.795</td> <td style="text-align: center;">20.681</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Line Item No. and Name	FY 2008	FY 2009	FY 2010							OPN - 221000/221005 Submarine Acoustic Warfare Systems	16.815	20.795	20.681																																																																																																
Line Item No. and Name	FY 2008	FY 2009	FY 2010																																																																																																																				
OPN - 221000/221005 Submarine Acoustic Warfare Systems	16.815	20.795	20.681																																																																																																																				
<p>D. ACQUISITION STRATEGY:</p>																																																																																																																							

CLASSIFICATION:		UNCLASSIFIED
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	R-1 ITEM NOMENCLATURE 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	
<p>This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US Submarines. In FY08, Achieve Milestone B and begin award of competitive contract for integration of technology inserts into the Next Generation Countermeasure (NGCM). Contractor testing will be conducted in FY 10.</p> <p>E. MAJOR PERFORMERS: NUWC NPT/ TBD NGCM Competitive Contract Award.</p>		

CLASSIFICATION:		UNCLASSIFIED		
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION				DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT		PROJECT NUMBER AND NAME 1265/Sub Defense Warfare
COST (In Millions)	FY 2008	FY 2009	FY 2010	
Project Cost	3.923	7.358	7.211	
RDT&E Articles Qty	0	0	0	
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US Submarines. Next Generation Countermeasure (NGCM) efforts entail simulating and determining the effectiveness of new technologies and capabilities developed under the Future Naval Capabilities (FNC), Small Business and Innovative Research (SBIR), and other RDT&E initiatives. New and emerging hardware and software are rigorously evaluated in a representative acoustic environment through both digital and hardware-in-the-loop simulations, to determine their readiness for inserting this technology into the NGCM.				

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMEN	PROJECT NUMBER AND NAME 1265/Sub Defense Warfare	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2008	FY 2009	FY 2010
Weapons Analysis Facility (WAF) Analysis	1.500	1.500	1.500
RDT&E Articles Quantity	0	0	0
FY 08-10 - Continue to conduct countermeasure proofing and effectiveness analysis for designated torpedo at Weapons Analysis Facility (WAF).			
	FY 2008	FY 2009	FY 2010
Next Generation Countermeasure (NGCM)	2.423	5.858	5.711
RDT&E Articles Quantity	0	0	0
FY08 - Continue transitioning of Future Naval Capability (FNC) technologies into existing fleet countermeasures including ACCOMS, and Fire Through Friendly Fire. Achieve Milestone B.			
FY 09-10 - Continue integration of technology inserts.			
FY10 - Conduct Contractor Testing.			

CLASSIFICATION:		UNCLASSIFIED										
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT					PROJECT NUMBER AND NAME 1265/Sub Defensive Warfare					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	FY 2010 Cost (\$000)	FY 2010 Award Date			
WAF ANALYSIS SYSTEM ENGINEERING	WR	NUWC Newport, RI	4.500	1.500		1.500	DEC-08	1.500	DEC-09			
NGCM SYSTEM ENGINEERING	WR	NUWC Newport, RI	6.092	1.513		0.347	DEC-08	0.350	DEC-09			
NGCM DEVELOPMENT	C/CPAF	Contractor - TBD	0.600	0.600		5.161	FEB-09	4.961	FEB-10			
NGCM SYSTEM ENGINEERING	WR	NUWC Keyport, WA	0.010	0.010		0.050	DEC-08	0.050	DEC-09			
Subtotal Product Development			11.202	3.623		7.058		6.861				
Remarks:												
PROGRAM MANAGEMENT SUPPORT	FFF	EG&G Gaithersburg, MD	0.645	0.250		0.000		0.000				
TRAVEL	WR	PMS415	0.150	0.050		0.050	NOV-08	0.050	NOV-09			
PROGRAM MANAGEMENT SUPPORT	C/CPAF	TECH Marine Burke ,VA	0.000	0.000		0.250	MAR-09	0.300	FEB-10			
Subtotal Management Services			0.795	0.300		0.300		0.350				
Remarks:												
Total Cost			11.997	3.923		7.358		7.211				

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-4, SCHEDULE PROFILE			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	
		PROJECT NUMBER AND NAME 1265/Sub Defensive Warfare	
	FY 08	FY 09	FY 10
	CM Effectiveness / WAF Threat Vulnerability		
TORPEDO DEFENSE WORKING GROUP (TDWG) / NEXT GENERATION COUNTERMEASURE (NGCM)	ACCOMS		
	Fire Through Friendly Fire	Integration of Technology Inserts	
		DRR	Contractor Testing
	MSB		
			Contract Award

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-4a, SCHEDULE DETAIL			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	
		PROJECT NUMBER AND NAME 1265/Sub Defensive Warfare	
Schedule Profile	FY 2009	FY 2010	
NGCM/ TDWG			
Integration of Technology Insertions	Q1-Q4	Q1-Q2	
Milestone B	Q3		
Contract Award		Q1	
Contractor Testing		Q3-Q4	